

ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES.
2. COORDINATE ELECTRICAL SERVICE W/FLORIDA POWER AND LIGHT COMPANY.
3. ELECTRICAL INSTALLATION DESIGN OF THIS PLAN IN IN COMPLIANCE AS SET FORTH BY STATE OF FLORIDA STATUTES MODEL ENERGY EFFICIENCY CODES.
4. THE CONTRACTOR WILL EXAMINE THE JOB SITE AND DETERMINE FOR HIMSELF PRIOR TO SUBMISSION OF BID EXISTING CONDITIONS.
5. ALL ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR. IT WILL BE HIS RESPONSIBILITY TO SECURE AND PAY FOR ANY PERMITS. CERTIFICATES OF INSPECTION, AS REQUIRED.
6. SUBSTITUTE MATERIALS EQUIPMENT OR METHODS SHALL NOT BE MADE WITHOUT APPROVAL OF THE ENGINEER. IF THE USE OF A SUBSTITUTE REQUIRES ANY CHANGE IN WORK, THE NECESSARY FOR SUCH CHANGE WILL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. AND IF APPROVED, SHALL BE MADE AT NO COST TO THE OWNER.
7. CLEAN UP SUCH TRASH AND DEBRIS GENERATED BY THE WORK AND LEAVE COMPLETED WORK IN A CLEAN, UNDAMAGED, AND FINISHED CONDITION READY TO RECEIVE WITHOUT FURTHER PREPARATION, UNLESS SO SPECIFIED IN OTHER SECTIONS, ANY ADJACENT OR ABUTTING WORK TO BE PERFORMED BY OTHERS.
8. MATERIALS, APPLIANCES, DEVICES AND EQUIPMENT SHALL MEET WITH THE REQUIREMENTS OF UNDERWRITERS' LABORATORIES AND SHALL BE NEW AND THE LATEST STANDARD PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF THE ITEM, UNLESS OTHERWISE INDICATED. LIKE ITEMS SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER.
9. ALL CONDUCTORS SHALL BE COPPER AND RUN IN CONDUIT. WIRE SIZE SHALL BE THWN UNLESS OTHERWISE NOTED ON PLANS. PROVIDE GROUND CONDUCTOR PER NEC 250-122.
10. LOCATION OF OUTLETS IN ELECTRICAL DRAWINGS IS DIAGRAMMATIC. CHECK MANUFACTURER'S DRAWING FOR EXACT LOCATION OF OUTLETS.
11. CIRCUIT NUMBERS SHOWN ARE FOR CALCULATION PURPOSES ONLY. ACTUAL CIRCUITING MAY VARY ACCORDING TO NEC AND FBC PROVIDE PANEL SCHEDULE AFTER COMPLETION.
12. APPLIANCES LOAD ARE SHOWN AS MAXIMUM TO BE INSTALLED WIRES TO BE SIZED ACCORDING TO NAME PLATE DATA. IT SHALL BE PERMISSIBLE TO CHANGE CIRCUIT NO. WITHOUT CHANGING QUANTITY OF CIRCUITS.
13. ALL 120-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, BEDROOMS, SUN ROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
14. PADDLE FANS EXCEEDING 35 LBS. WITH OR WITHOUT ACCESSORIES SHALL BE SUPPORTED INDEPENDENTLY OF THE OUTLET BOX. (TYP.)
15. ALL 125 VOLT, 15 AND 20 AMPERE RECEPTACLES SHALL BE LISTED TAMPER RESISTANT IN DWELLING UNITS.
16. A MINIMUM OF 50% OF THE LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS.

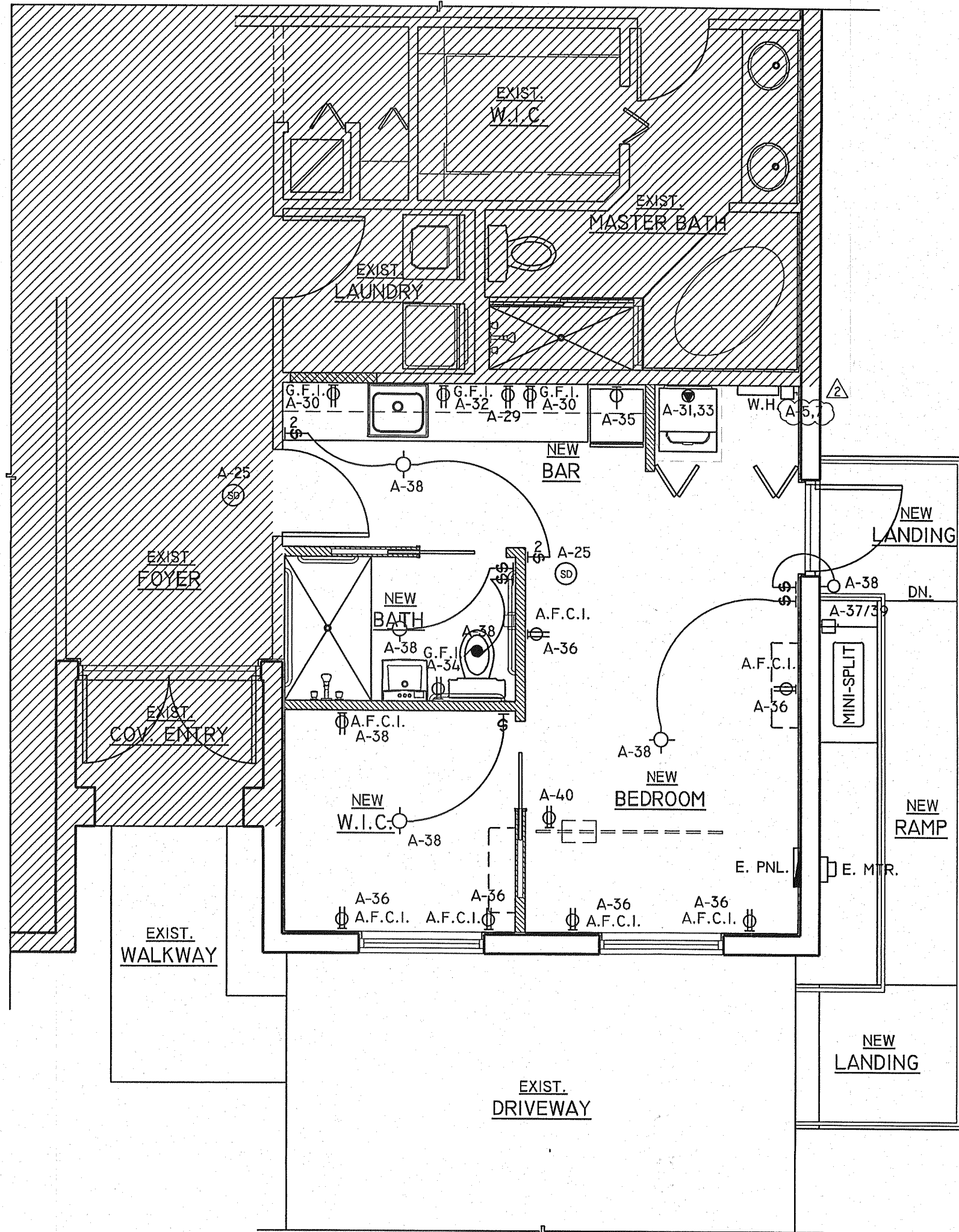
TYPE: SQUARE "D" OR EQUIVALENT APPROVED										MAIN BUS : 150 AMPS									
SERVICE : 150 A										NEUTRAL : 150 AMPS									
VOLTAGE: 240/120 V										MAINS : 150 AMPS									
MOUNTING: SURFACE MOUNTED										LOCATION: GARAGE									
PANEL: "A"																			
EXIST.	NEW	EXIST.	NEW	EXIST.	NEW	EXIST.	NEW	EXIST.	NEW	EXIST.	NEW	EXIST.	NEW	EXIST.	NEW	EXIST.	NEW	EXIST.	NEW
AMP.	POLE	TOTAL V.A.	WIRE	LOCATION	CKT. NO.	CKT. NO.	LOCATION	WIRE	TOTAL V.A.	POLE	AMP.	EXIST.	NEW	EXIST.	NEW	EXIST.	NEW	EXIST.	NEW
60	2	10,000	EX.	A.H.U.	1	2	C.U.	EX.	(7,000)	2	40	EXIST.		EXIST.		EXIST.		EXIST.	
					3	4													
					5	6	DRYER	EX.	5,000	2	30	EXIST.		EXIST.		EXIST.		EXIST.	
					7	8													
					9	10	REFRIGERATOR	EX.	1,500	1	20	EXIST.		EXIST.		EXIST.		EXIST.	
					11	12	GARBAGE DISPOSAL	EX.	750	1	20	EXIST.		EXIST.		EXIST.		EXIST.	
					13	14	DISHWASHER	EX.	1,200	1	20	EXIST.		EXIST.		EXIST.		EXIST.	
					15	16	BATH RECEPTACLE	EX.	*	1	20	EXIST.		EXIST.		EXIST.		EXIST.	
					17	18	GRAL. LT & RECEPT.	EX.	*	1	15	EXIST.		EXIST.		EXIST.		EXIST.	
					19	20	GRAL. LT & RECEPT.	EX.	*	1	15	EXIST.		EXIST.		EXIST.		EXIST.	
					21	22	GRAL. LT & RECEPT.	EX.	*	1	15	EXIST.		EXIST.		EXIST.		EXIST.	
					23	24	GRAL. LT & RECEPT.	EX.	*	1	15	EXIST.		EXIST.		EXIST.		EXIST.	
					25	26	GRAL. LT & RECEPT.	EX.	*	1	15	EXIST.		EXIST.		EXIST.		EXIST.	
					27	28	GRAL. LT & RECEPT.	EX.	*	1	15	EXIST.		EXIST.		EXIST.		EXIST.	
					29	30	SMALL APPLIANCES	12	1,500	1	20	NEW		NEW		NEW		NEW	
					31	32	SMALL APPLIANCES	12	1,500	1	20	NEW		NEW		NEW		NEW	
					33	34	BATH RECEPTACLE	12	*	1	20	NEW		NEW		NEW		NEW	
					35	36	GRAL. LT & RECEPT.	14	*	1	15	NEW		NEW		NEW		NEW	
					37	38	GRAL. LT & RECEPT.	14	*	1	15	NEW		NEW		NEW		NEW	
					39	40	LIFT	12	1,500	1	20	NEW		NEW		NEW		NEW	
					41	42													
DEMAND LOAD: 35,099 W = 146 AMPS (SEE LOAD CALCULATION)										FEEDER: EXIST. FED FROM: SERVICE.									

LEGEND

- WALL SWITCH 15A, 125V
- 3-WAY WALL SWITCH 15A, 125V
- DUPLEX RECEPTACLE OUTLET 15A, 125V
- SWITCHED DUPLEX RECEPT. OUTLET 15A, 125V
- DUPLEX FLOOR RECEPTACLE, 15A, 125V
- SIMPLEX RECEPTACLE OUTLET 15A, 125V
- SPECIAL RECEPTACLE OUTLET
- WALL MOUNTED LIGHTING FIXTURE
- CEILING LIGHTING FIXTURE
- JUNCTION BOX
- RECESSED CEILING LIGHTING
- TELEPHONE JACK
- TELEVISION OUTLET
- FUSE OR DISCONNECT SWITCH
- CHIME
- CARBON-MONOXIDE SMOKE DETECTOR
- SMOKE DETECTOR
- EXHAUST FAN
- ELECTRICAL METER/MAIN
- ELECTRICAL PANEL
- UNDER-COUNTER LIGHTING

ELECTRICAL LOAD CALCULATION

A - GENERAL LIGHTING LOAD: 2,262 S.F. @ 3 WATTS/S.F. = 6,786 WATTS  
B - FOUR SMALL APPLIANCE CIRCUITS X 1,500 WATTS = 6,000 WATTS  
C - FIXED APPLIANCES: RANGE 8,000 WATTS  
REFRIGERATOR 1,200 WATTS  
REFRIGERATOR 1,200 WATTS  
STACKABLE WASHER & DRYER 6,500 WATTS  
CLOTHES WASHER 1,500 WATTS  
CLOTHES DRYER 5,000 WATTS  
WATER HEATER 11,800 WATTS  
MICROWAVE 1,200 WATTS  
MINI-SPLIT 2,500 WATTS  
GARBAGE DISPOSAL 750 WATTS  
CONNECTED LOAD LESS A/C 32,436 WATTS  
FIRST 10,000 WATTS @ 100% = 10,000 WATTS  
REST WATTS @ 40% = 16,974 WATTS  
HEATING @ 65% = 8,125 WATTS  
A/C @ 100% = 10,000 WATTS  
DEMAND LOAD: 35,099 WATTS = 146 AMPS @ 240/120 V  
SERVICE SIZE = 150 AMPS



ELECTRICAL FLOOR PLAN  
SCALE: 1/4"=1'-0"

SMOKE DETECTOR NOTES:

THERE ARE EXISTING SMOKE DETECTORS INSIDE AND OUTSIDE THE SLEEPING ROOMS

SCOPE OF REVISION:  
WATER CHANGED FROM TANK TO INSTANTANEOUS WATER HEATER

REVISIONS

- 07/03/2015 (REV.) H.S.
- 07/17/2015 H.S.

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GARAGE CONVERSION

IN A RESIDENCE PROPERTY OF FRANK GARCIA

LOCATED AT

1671 SW 151 TER, MIAMI, FL 33196

SCALE: AS SHOWN

DATE: 10/24/2014

JOB NO.

SHEET NO.:

E-1

STATE OF FLORIDA  
REGISTRATION NO. 4929